Elecom Electronics Supply

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2014

We offer Leading Brands including:

LANTRONIX® · WIZnet · ORing · MultiTech Systems · Robustel · HUAWEI · LOCOSYS · antenova® · NOVACOMM · iEi

We also support below brands for manufacturing:

ST · TDK · hynix

Lantronix Serial to Ethernet **Xport**

XPort® provides the most compact integrated solution available to network-enable virtually any product with a serial interface. The XPort has everything OEMs need to bring products to market with lightning speed, all contained in a single RJ45 package.

- Support RS232, RS485, and RS422 interface.
- Built-in Web server * able to be customised
- Programmable email alert
- Optional 256-bit AES (Rijndael) encryption
- Provided Com port redirector Utility program
- Support Modbus RTU to Modbus TCP, Master/Slave in Xport-M
- Extremely compact 40x16x13 mm
- 3 GPIOs available to be used

Lantronix Serial to Ethernet **Xport PRO**

The XPort® Pro™ is Lantronix' most powerful, self-contained embedded networking module. Footprint compatible with the popular XPort® and running either uCLinux or Evolution OS® operating systems.

- 32-bit processor provided high performance
- 16MB memory for customisation Web server and programming
- Software selectable data rates from 300 to 921kbps
- Support TCP/IP, UDP, ICMP, SNMPv2, FTP, Telnet, SMTP, SSHv2, SSLv3, PPP
- Web Server customizable with CGI, Java
- Supported Modbus Slave
- Encryption: AES, 3DES and RC4
- Support IPv6
- Support Multiple TCP connection

Smallest serial to Ethenet **Xpico**

NEW!

The smallest embedded device server in the world, xPico can be utilized in designs typically intended for chip solutions. A key difference with the xPico is that there is virtually no need to write a single line of code, translating to a much lower development cost and faster time-to-market.

- Chip size: 24mm x 16.5mm
- Support RS232, RS485, and RS422 interface.
- Built-in Web server * able to be customised
- Programmable email alert
- 256-bit AES (Rijndael) encryption
- Provided Com port redirector Utility program
- 6 GPIOs available to be used
- Protocols: TCP/IP, UDP/IP, ARP. ICMP, SNMP, TFTP, Telnet, DHCP, BOOTP, HTTP, AutoIP

Lantronix Serial to Ethernet box **UDS1100**

UDS1100, enables users to connect, manage and control. Virtually any piece of equipment can be added to an Ethernet network in a matter of minutes!

- Support RS232, RS485, and RS422 interface.
- Built-in Web server * able to be customised
- Provided Com port redirector Utility program
- Support Modbus RTU to Modbus TCP, Master/Slave in UDS1100-IAP
- 2 Serial port version UDS2100 available.
- Programmable email alert

Lantronix Advanced Serial to Ethernet Box - **EDS1100**

The EDS1100 series are unique, hybrid Ethernet terminal/multiport device servers which allow remote access to and management of virtually any IT/networking equipment or edge device such as medical equipment, POS terminals or security equipment. The EDS provides bullet-proof security by offering a variety of robust data encryption and authentication options. Featuring Lantronix' powerful Evolution OS®, with AES, SSH and SSL built in

- Supported TCP/IP, UDP, ICMP, SNMPv2, FTP, Telnet, SMTP, PPP
- Supported Modbus Slave
- Software selectable data rates from 300 to 921kbps
- Support Multiple TCP connection
- Web Server customizable with CGI, Java
- Supported Modbus Slave
- Encryption: AES, 3DES and RC4, SSLv3, SSHv2
- Supported IPv6
- Available in 2/4/8/16/32 ports version

Lantronix **SpiderDuo** KVM-over-IP Solution

SpiderDuo KVM (keyboard, video, mouse)-over-IP solutions. The IPv6-certified SpiderDuo is a compact device that provides secure, real-time control of GUI-based computers, servers and other equipment from virtually anywhere via the Internet. An optional power control unit (PCU) is available for the SpiderDuo, providing the ability to remotely control the power to the attached PC, server or other device

- Platform independent, and can be accessed from any Windows, Unix, Linux, MAC, or other operating system, provided that a Java-enabled web browser is available.
- Browser-driven, and requires no special software to operate, and allows full BIOS level control of the host system.
- Virtual Media supported, i.e. Remote user's USB Thumb drive, CD-Rom can be shared with the server.
- Multiple Remote Users support, Up to 8 Simultaneous Users in good speed
- Allow software reset and hardware reset the attached PC, Optional power control unit required for hardware reset
- It can generate and send Wake-On-LAN Packet, to the attached machine or to any other PC that is within its subnet, to "wake-up" the computer
- 1 serial ports provided for Telnet/SSH to target computer
- SSL 128-Bit RSA Public & Private Key Encryption
- High Resolutions Video supported 1600x1200 @ 60Hz
- Cost Effective, light weight <300g, single port KVM solutions
- PS/2 and USB version available.

Lantronix Serial to WiFi device **Matchport b/g**

MatchPort® b/g is a programmable wireless device server that adds WiFi to devices with the high security and authentication protocol. The compact size package provided 2MB web page serving supported 10/100Mbps Ethernet and WiFi network.

- Support RS232, RS485, and RS422 interface.
- Built-in Web server * 2MB RAM able to be customised
- Supported 2 serial port
- Supported Serial to LAN, Serial to WiFi, and LAN to WiFi bridging
- Support AP roaming
- 8 GPIOs available to be used
- Supported 802.11b/g, WPA, WPA2

Lantronix Cellular modem **Premierwave XC - 2G/3G**

PremierWave XC provides robust security by offering a variety of data encryption and authentication options. Featuring the industryproven Lantronix device server application suite with AES, SSH and SSL

- Support RS232, RS485, and RS422 interface.
- Support Ethernet to Cellular Failover/ Failback
- 3G version freq: (850/800/900/1900/2100 MHz)
- 3G DL: 14.4Mbps, UL: 7.2Mbps
- 3G verson support Ethernet to Cellular routing
- 2 Digial input and 1 relay output (1A@24V)
- SMS relay control
- Operation Temp: -40C to 85C
- 1.5KV Ethernet isolation
- ARP, HTTP, UDP/IP, TCP/IP, ICMP, BOOTP, DHCP, Auto IP, DNS, SNMP

Lantronix Serial to WiFi device **Xpico WiFi**

NEW!

xPico® Wi-Fi®, one of the world's smallest and most flexible Wi-Fi® device servers.

xPico Wi-Fi is a pin and form factor compatible state-of-the-art member of the xPico family, providing low power, Soft AP and simultaneous client mode, full IP and WLAN stacks. The xPico Wi-Fi is a complete device server suitable for mobile M2M applications and includes industry best 5-year warranty.

- •Chip-sized footprint: 24mm x 16.5mm
- •Low Power (6µA Standby)
- •Can be operated off batteries
- •IEEE 802.11 b/g/n (2.4 GHz)
- •Simultaneous Soft AP and Client mode
- •Complete Device Server Application with full IP Stack and Web Server
- •Dual Serial Port with Data Rate of up to 921 kbps
- •SPI with clock rate of 20MHz, 8 GPIOs
- •USB 2.0 full rate device mode
- •256-bit AES Encryption
- •Industrial Temperature Range : -40° to +85° C
- •5-Year Limited Warranty

LANTRONIX®

NEW!

Wiznet serial to Ethernet device - **WIZ127SR**

WIZ127SR is a 2 ports gateway module that converts RS-232 protocol into TCP/IP protocol.

This module enables remote gauging, remote management of the device through the network based on the Ethernet and the TCP/IP by connecting to existing equipment with RS-232 serial interface. In other words, WIZ127SR is a protocol converter that transmits the data sent by serial equipment as TCP/IP data type or vice versa.

• Plug & Play Type Serial to Ethernet Gateway module
  * Adds Network Function Simply and Quickly
  * Provides Firmware Customization
- Hardware compatible with WIZ100SR
- 2port serial to Ethernet
  * supports RS-232
  * supports RS-422/485 by adding RS-232 to RS-422/485 converter
- Supports TCP & UDP communication
- Supports DHCP, DNS, NTP
- Easy configuration
  * Web, Telnet, Configuration Tool & Serial Command
- GPIO Extendable (Max. 10GPIOs), by firmware customization
- 10/100 Ethernet & Max.921,600bps Serial Interface
- Supports Static IP, DHCP, PPPoE
- Supports DNS function
- RoHS compliant

Wiznet Serial to Ethernet device - **WIZ107SR / WIZ108SR**

WIZ107SR/108SR includes WIZnet's hardwired TCP/IP chip that embeds the most of TCP/IP protocols such as TCP, UDP, IP, ARP, ICMP, IGMP and Ethernet MAC.

10Mbps and 100Mbps Ethernet are all supported and a standard RJ-45 is mounted on the board of WIZ107SR./108SR One serial port is provided in WIZ107SR/108SR via 12-pin connector which features the standard RS-232(Wiz107SR) or RS422/485 (Wiz108SR) specification. WIZ107SR/108SR can be powered by a DC 3.3V power supply with the max 250mA current supply.

* Compact Sized RS-232 to Ethernet Converting Module
* Quick and Simple Internet Connection to Serial Devices
* Supports Firmware Customization according to Customer's Requirement
* Guarantees Stable and Reliable Data Communication by using W7100A One chip solution
* Provides User-Friendly Configuration Tool Program
* User Password Configurable for Security
* Supports Serial Command for Serial configuration
* 10/100 Mbps Ethernet & Max 230Kbps Serial Interface
* Supports IP Configuration - Static, DHCP
* Supports DNS
* Compact design 48mm X 30mm X 18mm (L x W x H)
* RoHS Compliant

Wiznet serial to Ethernet Chipset - **W5500** and Module **WIZ550io**

NEW!

The W5500 chip is a Hardwired TCP/IP embedded Ethernet controller that provides easier Internet connection to embedded systems. W5500 enables users to have the Internet connectivity in their applications just by using the single chip in which TCP/IP stack, 10/100 Ethernet MAC and PHY embedded.

WIZnet's Hardwired TCP/IP is the market-proven technology that supports TCP, UDP, IPv4, ICMP, ARP, IGMP, and PPPoE protocols. W5500 embeds the 32Kbyte internal memory buffer for the Ethernet packet processing. If you use W5500, you can implement the Ethernet application just by adding the simple socket program. It's faster and easier way rather than using any other Embedded Ethernet solution. Users can use 8 independent hardware sockets simultaneously.

Supports Hardwired TCP/IP Protocols : TCP, UDP, ICMP, IPv4, ARP, IGMP, PPPoE
- Supports 8 independent sockets simultaneously
- Supports Power down mode
- Supports Wake on LAN over UDP
- Supports High Speed Serial Peripheral Interface(SPI MODE 0, 3)
- Internal 32Kbytes Memory for TX/RX Buffers
- 10BaseT/100BaseTX Ethernet PHY embedded
- Supports Auto Negotiation (Full and half duplex, 10 and 100-based)
- Not supports IP Fragmentation
- 3.3V operation with 5V I/O signal tolerance
- LED outputs (Full/Half duplex, Link, Speed, Active)
- 48 Pin LQFP Lead-Free Package (7x7mm, 0.5mm pitch)

WIZ550io

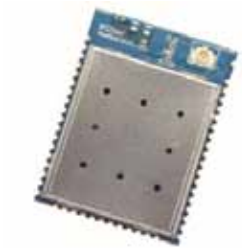
NEW!

WIZ550io is an auto configurable Ethernet controller module that includes W5500 (TCP/IP hardwired chip and PHY embedded),transformer and RJ45.

WIZ550io initializes itself with embedded real MAC and set the default IP address(192.168.1.2) and can be pinged.

NEW!

Wiznet Low cost serial to WiFi module - **WizFi210/220**



WizFi210/220(hereinafter WizFi210) is a Wi-Fi module that provides the robust and stale Wi-Fi connectivity with low power consumption.

WizFi210 performs all functions for Wi-Fi connectivity and TCP/IP processing. All you have to do is just sending commands to the module via serial interface

* Support 802.11b
* Serial interface
  - UART(up to 921Kbps baud rate)
  - SPI(up to 2.25MHz clock)

* Support AT commands
* Support to multi sockets up to 16 concurrently
* Support TCP, UDP, IP, ICMP protocol
* Ultra low power, support Sleep mode and Alarm input for waking up
* Highly security with WEP, WPA, WPA2PSK, Enterprise mode(example EAP-TLS and so on)
* Support GPIOs n Hardware accelerator for AES and RC4 encryption/ decryption
* Support Infrastructure mode, Ad-hoc mode, Limited AP(Soft AP) mode without ethernet or Wifi interface for uplink
* Compact size with Dimension 32 x 23.5 x 3 mm

Wiznet Ultra small serial to WiFi module - **WizFi250**

The WizFi250 is a Ultra small size wireless module with the highest-level integration, featuring 802.11b/g and 802.11n WiFi specifications

Hardware WAPI acceleration engine, AES, TKIP, WPA and WPA2 are supported to provide the latest security requirement on your network.

* IEEE 802.11b/g/n WiFi standard
* Integrated RF power amplifier
* Supports wireless data rates up to 65Mbit/s
* 1MB Flash Memory, 128KB SRAM, 1MB Serial Flash
* Supports per packet Rx Antenna diversity
* Low power consumption & excellent power management performanc extend battery life.
* Ultra Small size suitable for low volume system integration.
* Easy for integration into mobile and handheld device with flexible system configuration.

2.412-2.484 GHz two SKUs for worldwide market.
Lead Free design which supporting Green design requirement, RoHS Compliance.
Device Package : 28×20 mm (17×20 mm)
Serial Interface : UART, SPI
Powerful Web server provides
Soft AP
Enough memory retention
Wi-Fi Security (WEP, WPA/WPA2PSK)
L2 Switching
OTA(Over The Air F/W Upgrading)

Wiznet Serial to Ethernet Chipset Solutions - **iMCU-S2E**

NEW!

iMCU-S2E is a new chipset solutions from Wiznet, it is based on their W7100 and W7200 chipset for the development. iMCU-S2E solutions provided a complete design solutions for engineer to implement the Ethernet solution on their PCB without any concern in the software TCP/IP stack.

W7200-S2E is a high-performing Cortex-M3 in which advanced 'Serial to Ethernet' application firmware is programmed. It comes with licensed networking firmware of WIZ127SR module that improved functions are added to.

Advanced 'Serial to Ethernet' Firmware (WIZ127SR) Programmed

- MAC address included
- 2 port Serial to Ethernet (RS-232 & 422/485)
- Supports TCP & UDP communication
- Supports DHCP, DNS & NTP
- Configurable user password for security
- Easy setup : Web, Telnet, Configuration tool & Serial command
- GPIO Extendable (Max. 10 GPIOs)
- Supports 10/100 Ethernet & Max.921.6 Kbps serial interface
- Support firmware customization

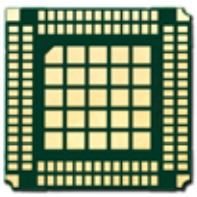
Complete Hardware Reference Design Package

- Reference Hardware Schematic
- Gerber Files of WIZ127SR
- Design Integration Guide
- Part List (WIZ127SR)

WIZnet

Huawei HSPA / LTE module

NEW!



MU609 is high-quality designed HSPA module in small size and Huawei standard LGA form factor which specially for industrial-grade M2M applications such as vehicle telematics, tracking, mobile payment, industrial router, safety monitor and industrial PDAs.

Based on Huawei standard LGA technology, the MU609 module provide a smoothly path to Huawei HSPA+ or LTE high-speed modules. MU609 supports 14.4Mbps downlink data rate, providing data and voice service under global GSM/GPRS/EDGE/WCDMA networks. The module also include enhanced features like embedded TCP/IP stack, FOTA, STK, and Huawei enhanced AT commands

With Huawei standard LGA form factor and also command AT command set, it is easy to migration from MU509 family and MC509 to MU609. All Huawei modules comply with the RoHS directive and Regional certification.

MU609

* 145-pin LGA interface
* HSPA+/UMTS quad-band 850/900/1900/2100 MHz
* GSM/GPRS quad-band 850/900/1900/2100 MHz
* Downlink:14.4 Mbps, Uplink: 5.76 Mbp
* Multiple interface
  - Full UART & 2-wire UART
  - USB 2.0 High speed
  - PCM Voice
  - JTAG
* SIM Interface (1.8V/3.0V)
* Size (L x W x H mm): 30 x 30 x 2.27
* Normal operating temp: –20°C to +70°C
* Extended operating temp: –40°C to +85°C
* Voltage input: 3.3<3.8<4.2V
* In-built GPS receiver
* FOTA supported
* In-build TCP/IP, UDP stack

MU509

* 145-pin LGA interface
* MU509-c (UMTS/HSDPA 850/1900 MHz), for North America market.
* MU509-g (UMTS/HSDPA 850/2100 MHz), for Asia pacific, Latin America market.
* Downlink:3.6 Mbps, Uplink: 384 kbps
* Multiple interface
  - 1 Full UART
  - USB 2.0 High speed
  - PCM Voice
  - JTAG
* SIM Interface (1.8V/3.0V)
* Size (L x W x H mm): 30 x 30 x 2.65
* Normal operating temp: –20°C to +70°C
* Extended operating temp: –40°C to +85°C
* Voltage input: 3.3<3.8<4.2V
* In-build TCP/IP, UDP stack
* CDMA version is available.

ME909u-521

* 145-pin LGA interface
* LTE (FDD) B1/B2/B3/B5/B7/B8/B20 DC-HSPA+/HSPA+/HSPA/UMTS dual-band B1/B2/B5/B8 EDGE/ GPRS/ GSM quad-band 850/900/1800/1900 MHz
* DC-HSPA+ :DL:42 Mbps, UL: 5.76 Mbps
* LTE FDD: DL:100 Mbps, UL: 50 Mbps @ Bandwidth 20M (CAT3)
* Multiple interface
  - 2 4 wire UART port
  - USB 2.0 High speed
  - PCM Voice
  - SDIO
  - HSIC
  - I2C
  - SPI
* SIM Interface (1.8V/3.0V)
* Size (L x W x H mm): 30 x 30 x 2.3
* Normal operating temp: –20°C to +70°C
* Voltage input: 3.3<3.8<4.2V
* In-built GPS receiver
* FOTA supported

Huawei GSM/GPRS module MG323-B

NEW!

MG323-B is high-quality designed Quadband GSM/GPRS module in small size and B2B form factor which specially for industrial-grade M2M applications such as vehicle telematics, tracking, mobile payment, industrial router, AMI device..etc

* Size (L x W x H mm): 24 x 24 x 2.95
* Quad-band GPRS/GSM
* Downlink:85.6 kbps, Uplink: 42.8 kbps
* Normal operating temperature: –20°C to +70°C
* Extended operating temperature: –40°C to +85°C
* Voltage input: 3.3<3.8<4.2V
* SupportedTK/ FTP/ HTTP/ Audio Record/ TTS
* 1 Full UART port
* Support baud rate 9600 bps to 230400 bps
* Support Voice
* RoHS

Huawei HSPA mini PCIe module MU609 Mini PCIe

NEW!

MU609 Mini PCIe is a variant of MU609 with standard Mini PCIe form factor. It is high-quality designed HSPA module which specially for industrial-grade M2M applications such as vehicle telematics, tracking, mobile payment, industrial router, safety monitor and industrial PDAs.

MU609 Mini PCIe supports 14.4Mbps downlink data rate, providing data and voice service under global GSM/GPRS/EDGE/WCDMA networks. The module also include enhanced features like embedded TCP/IP stack, FOTA, STK, and Huawei enhanced AT commands

* HSPA+/UMTS quad-band 850/900/1900/2100 MHz
* GSM/GPRS quad-band 850/900/1900/2100 MHz
* Downlink:14.4 Mbps, Uplink: 5.76 Mbp
* USB 2.0 High speed / PCM Voice

Locosys **MC-1612-G** GPS receiver module

NEW!

LOCOSYS MC-1612-G is a complete standalone GNSS module. The module can simultaneously acquire and track multiple satellite constellations that include GPS, GLONASS, GALILEO, QZSS and SBAS. It features low power and small form factor. Besides, it can provide you with superior sensitivity and performance even in urban canyon and dense foliage environment

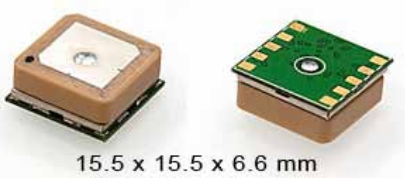
- MediaTek 3333 high sensitivity solution
- Support GPS, GLONASS, GALILEO and QZSS
- Capable of SBAS (WAAS, EGNOS, MSAS, GAGAN)
- Support 99-channel GNSS
- Low power consumption
- Fast TTFF at low signal level
- Built-in 12 multi-tone active interference canceller
- Free hybrid ephemeris prediction to achieve faster cold start
- Up to 10 Hz update rate; Built-in data logger
- ±11ns high accuracy time pulse (1PPS)
- Indoor and outdoor multi-path detection and compensation
- Small form factor 15.9 x 13.1 x 2.2 mm
- SMD type with stamp holes; RoHS compliant
- ISO/TS 16949 quality control

Locosys **MC-1010** GPS receiver module

LOCOSYS GPS MC-1010 module features high sensitivity, low power and ultra small form factor. This GPS module is powered by MediaTek 3339, it can provide you with superior sensitivity and performance even in urban canyon and dense foliage environment.

- MediaTek 3339 high sensitivity solution
- Support 66-channel GPS
- Ultra low power consumption
- Fast TTFF at low signal level
- Built-in 12 multi-tone active interference canceller
- Free hybrid ephemeris prediction to achieve faster cold start
- Built-in data logger; Up to 10 Hz update rate
- Built-in DC/DC converter to save power
- Allow direct connection with the lithium battery
- Built-in off-chip LNA to get best performance when using passive antenna
- ±11ns high accuracy time pulse (1PPS)
- Capable of SBAS (WAAS, EGNOS, MSAS, GAGAN)
- Support Japan QZSS
- Indoor and outdoor multi-path detection and compensation
- Small form factor 10.1 x 9.7 x 2 mm
- SMD type with stamp holes; RoHS compliant

Locosys **LS2003C-2R** Smart GPS module



LS2003C-2R is a complete standalone GPS smart antenna module, including embedded patch antenna and GPS receiver circuits. The module is powered by MediaTek GPS chip and can acquire a lot of satellites at a time while providing fast time-to-first-fix and low power consumption.

- MediaTek 3337 high sensitivity solution, Support 66-channel GPS, Up to 10 Hz update rate
- Fast TTFF at low signal level, Free hybrid ephemeris prediction to achieve faster cold start
- Capable of SBAS (WAAS, EGNOS, MSAS, GAGAN), Support Japan QZSS
- Built-in DC/DC converter to save power, Ultra low power consumption
- Allow direct connection with the lithium battery
- Built-in 12 multi-tone active interference canceller
- Indoor and outdoor multi-path detection and compensation

Locosys G-Mouse **LS23036C**

LS23036C is based on the 66 channel GPS SMD type receivers MC-1513 technology that use MTK3339 chipset solution. The GPS mouse will track up to 66 satellites at a time while providing fast Time-To-First-Fix, one-second navigation updates and low power consumption.

- RJ11 RS232 interfaces, 6 meter (USB ver available in 3 meter version LS23030)
- Built-in 12 multi-tone active interference canceller
- Free hybrid ephemeris prediction to achieve faster cold start
- Up to 10 Hz update rate
- Indoor and outdoor multi-path detection and compensation
- Build-in micro battery to reserve system data for rapid satellite acquisition
- LED indicator for GPS fix or not fix
- Waterproof, IPx7 rating
- Magnet for mounting on the car, Skid resistant pad on the bottom

Antenova GPS **M10478** with RF Antenna

Antenna Module is an ultra compact single package solution to combine RF and antenna on the same module. The M10478 is a highly integrated GPS RF Antenna Module suitable for L1-band GPS and A-GPS systems. The device is based on the high performance CSR SiRFstarIV™ GPS architecture combined with Antenova's high efficiency antenna technology, and is designed to provide an optimal radiation pattern for GPS reception.

- Easy to use, low cost single package GPS RF antenna module
- SiRFstarIV™ 9333 GPS chipset
- Ultra small SMT package; 13.8 x 9.5 x 1.8mm
- Low current consumption <10mW required for TricklePower™ mode
- Novel external matching ensure easy tuning for each platform
- Anti Jammer Remover
- SiRF Instant Fix - SGEE (Server Generated EE) & CGEE Client Generated EE usage (SiRF Instant Fix)

NEW!

MultiModem® rCell 100 Series

The MultiConnect® rCell 100 Series Intelligent Wireless Router equipped with Serial/Ethernet/WiFi/3G/BT interfaces is part of Multi-Tech Systems' comprehensive line of routers for M2M (machine to machine) communications in Cost effective solutions. Designed for any application, it provides functionality that maximizes the user experience and the assurance in knowing your router is going to perform as specified - as well as withstand the rigors of your application..

- Frequency bands 3G: 850/900/2100 MHz, HSPA performance
- Supported Serial to Ethernet/ HSPA/ WiFi/ BT, 3G to Ethernet routing and Ethernet to wireless bridging
- RS-232 serial port available
- Stateful Packet Inspection firewall with packet filter rules
- Supports IPSec VPN tunnels for secure LAN-to-LAN access
- 3DES and AES encryption
- Built-in dynamic DNS client
- Models with Wi-Fi®/Bluetooth® connectivity available
- Models with GPS connectivity available
- *WiFi to 3G or vice versa failover function avaialbe in WiFi model (* New feature available in Q2,2014)

NEW!

Multitech

MultiConnect® MT200A2W-H5 Analog-to-wireless converter

The MultiConnect® AW analog-to-wireless converter is a convenient turnkey solution that allows legacy equipment with built-in analog modems to connect to the cellular data networks. By emulating the traditional dial-up PSTN network and using integrated or external cellular modems, the affordable MultiConnect AW converter gives new life to devices currently using traditional analog dial-up communications

- Turnkey solution with integrated 3G modem, V.34/33.6K analog modem and SLIC for PSTN emulation
- Supports packet data, circuit-switched data and PPP pass-through modes
- Penta band 3G: 850/900/1700/1900/2100MHz in HSPA+
- RJ-11 port provides dial tone, ring, busy and DTMF detection
- Supports analog modem connections from 300 baud to 33.6K bps with error correction and data compression
- Serial port configuration
- External SMA antenna connector
- Two-year warranty

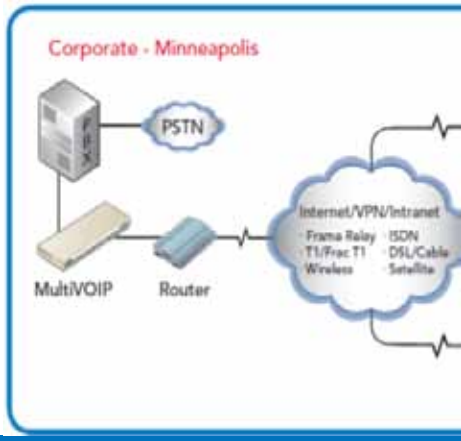
MultiModem® ZBA MT9234ZBA-IEC

The MultiModem® ZBA business modem supports remote configuration for centralized setup and control, as well as callback security making it the modem of choice for business applications. The V.92/56K models support out of band management, as well as increased upload speeds for quicker connect times, and V.34/33.6K fax and Error Correction Mode

- Remote configuration for centralized setup and management
- Callback security for network security and reduced telephone toll charges
- U.S. Caller ID reporting
- Small footprint and stackable design
- Linux compatible
- Self-resetting lightning protection
- Flash memory for easy updates
- Two-year warranty
- V.92/56K download speeds and 48K upload speeds when connecting with V.92 servers
- V.44 compression improves data throughput rates
- Class 1.0 and Class 2.1 faxing at speeds to V.34/33.6K bps (Super G3)
- Out of band management available through factory settings or field configuration
- Error Correction Mode (ECM) provides fast and reliable fax transmissions
- Voice mail support and full-duplex speaker phone operation on voice models

Multitech MultiVOIP®

The MultiVOIP® voice over IP gateways provide toll-free voice and fax communications over the Internet or Intranet. By integrating voice and fax into existing data networks, customers realize substantial savings on inter-office long distance toll charges. All voice over IP gateways connect directly to phones, fax machines, key systems, PSTN lines, or a PBX to provide real-time, toll quality voice connections to any office on your voice over IP network. MultiVOIP gateways maximize the investments already made in data and voice network infrastructure



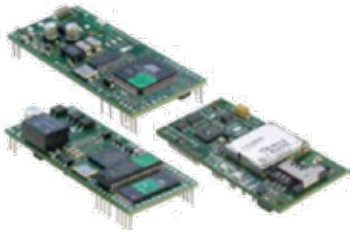
- Ethernet connectivity and full IP compatibility with existing routers and WAN infrastructure
- PSTN failover automatically routes calls over the PSTN network if the IP network is down
- Interoperable with voice over IP equipment via T.38 relay
- Supports SIP supplementary services, including call forwarding, call transfer and call hold

MultiModem® ZDX
MT5656ZDX

The MultiModem® ZDX desktop modem delivers V.92/56K data transfer and 14.4K faxing capabilities making it ideal for the mainstream PC market.

- V.92/56K download speeds and 48K upload speeds
- V.44 compression improves data throughput rates
- Class 1 and Class 2 faxing at 14.4K
- Voice mail support and full-duplex speaker phone operation on voice models
- Dial-up phone line connectivity for asynchronous equipment
- Phone number storage for automatic dialing
- Automatic call answering; Automatic rate detection and negotiation
- Small footprint and stackable design
- Includes data/fax software for Windows
- Suitable for POS system

Multitech SocketModem



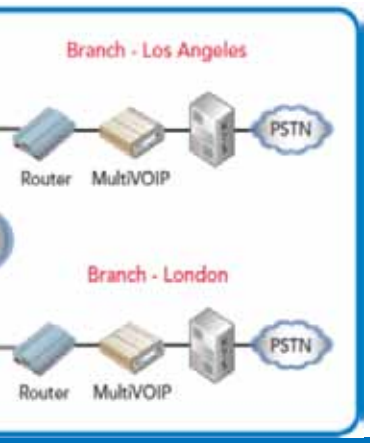
Multitech Embeded socketmodem provided a universial socket interfaces for deigner to add communication capability to the existing or new product in a short time. Multi-Tech's embedded solutions require minimal engineering effort and allow you to get to market quickly so you can get an edge on the competition

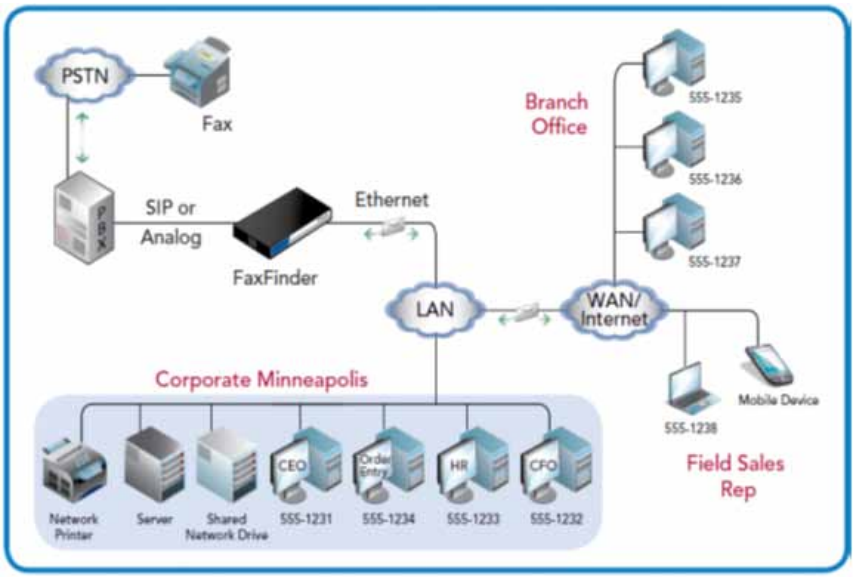
- Universial socket for different communication technology
- Available in 56K, Ethernet, WiFi, GPRS, HSPA, Bluetooth ver
- Universial IP supported, command compatible
- Supported New listed OCG-E linux Cellular format
- Pin compatible to all version embedded modem

Multitech FaxFinder®

The FaxFinder® fax server is an all-in-one fax server that provides distributed faxing capabilities, over a WAN, for corporate offices, small remote offices and field sales people. Inbound faxes are delivered to a recipient's inbox or a network folder, or printed on a network printer. Outbound faxes can be sent using a web client or through Microsoft® Office application

- Supports a broad variety of analog and IP fax standards
- Seamlessly compatible with a wide range of telephony systems, including Avaya, Mitel, NEC, Panasonic and Shoretel and other leading PBX manufacturers (For a list of compatible PBX systems, visit www.multitech.com/ff/interoperability.go.)
- Web services API allows for integration with 3rd party applications
- Allows network administrator to configure hardware and establish how faxes are sent and received
- Archives inbound and outbound faxes to shared network storage
- Users can send and receive faxes from their computers
- Create one fax from multiple documents for simplified management of documents





Novacomm Bluetooth module **NVC-MDCS42A** Class 2

NVC-MDCS42A module is a small form factor and Bluetooth radio module (class 2) module. Their iAP profiles provide a protocol interface environement to all Apple OS devices.

- Class 2 power module; BQB ready
- Supported BT2.1 + EDR
- UART, PIO, AIO, USB, SPI, PCM interfaces
- Integrated meander line antenna
- TX:+4dBm; RX: -84dBm@0.1%BER
- iNOVA Firmware: SPP, OPP, HID, SDP, FTP, iAP profiles
- Power consumption, 22mA typ, <2mA standby
- -40ºC to +85ºC operation temperature
- 25mm×13.40mm×2.2mm
- 10 meters operation range

Novacomm **NVC-MDCS71** BT4.0 Class 2

NVC-MDCS71 is Bluetooth4.0 single mode module, device targeted for low power sensors and accessories. Their iAP profiles provide a protocol interface environement to all Apple OS devices.

- BluetoothV4.0, Class II
- UART, PIO, AIO,Debug SPI interfaces
- Integrated chip antenna
- TX:+4dBm; RX: -88dBm@0.1%BER
- Power consumption, 16mA typ, <5uA deep sleep mode
- -40ºC to +85ºC operation temperature
- 19.2mm x12mm x0.2mm
- NOVA firmware including Bluetooth Low Energy profiles such as BLP, HTP, HRP, PXP, etc. Demo Apps on iPhone 4S/New iPAD are available

NEW!

Hi-Flying Cost effective WiFi module **HF-LBP100**

HF-LBP100 is low power consumption 802.11b/g/n WiFi module in compact form factor . Full IPv4 and IPv6 stack enable your devices to have the latest TCP/IP protocol. It provided a wireless interface to any equipement with UART/SPI.

- Support IEEE802.11b/g/n Wireless Standards
- Low-Power Applications with Excellent Power Save Scheme
- Support UART/SPI/PWM/GPIO Data Communication Interface
- Support Work As STA/AP/AP+STA Mode
- Support Smart Link Function, WPS Function
- Support Wireless/Remote Firmware Upgrade
- Support Multi-TCP Client (Upto 5) Application
- Support Software Controlled Power Key
- Single +3.3V Power Supply
- Smallest Size: 23.1mm x 32.8mm x2.7mm
- Extended Temp: -40C to 85C
- FCC/CE Certificated

Hi-Flying Multiple interface WiFi module **HF-LBP200**

NEW!

HF-LBP200 is low power consumption 802.11b/g/n WiFi module based in Marvell chipset solutions. It provided a wireless interface to any equipement with UART/SPI/I2C.

- Support IEEE802.11b/g/n Wireless Standards
- Marvell Solutions for Smart Energy and Building Automation
- Low-Power Applications with Excellent Power Save Scheme
- Support 2-UART/SPI/I2C/I2S/PWM/ADC Data Interface
- Support Work As STA/AP/AP+STA/Wi-Fi Direct Mode
- Support Smart Link Function
- Support OTA and Remote Firmware Upgrade
- Support Wakeup-on-Wireless and Wakeup Local
- Support FTTPS/TLS and mDNS Application
- Support PCB/External Antenna Option
- Single +3.3V Power Supply
- Smallest Size: 23.1mm x 32.8mm x2.7mm
- FCC/CE Certificated

Passport Network - Cost effective Zigbee module **ZM101/101PA/102/201**

ZM series is a low cost, small form factor module that provide a reliable, wireless data communication over Zigbee PRO/802.15.4 networks. ZM series is compliant with ZigBee Pro protocol. ZM is developed based on Renasas Electronics' 16-bits microcontroller (uPD78F1146) and UBEC's UZ2400 2.4GHz 802.15.4 RF chip.

- ZigBee/802.15.4 compatible RF module
- Sleep Current: 2uA
- Support P2P/ star network, and self-organizing / self-healing mesh networks topologies
- Industrial temperature (-40C to 85C)
- RF Receiver Sensitivity: -95dBm
- RF TX power available in 0dBm, 20dbm(PA)
- 8 channels of 10bits ADC
- 2 channels timer/counter/PWM IO
- Watchdog timer
- Hardware security engine (AES-128)
- Real time counter provide flexible sleeping cycle from monthly, weekly, down to a few seconds
- UART, SPI, IIC interface
- Support console, AT-command, and management utility to configuration the module
- Support transparent and API format communication mode

Industrial Wireless Devices Server **IDS-5042-WG**

IDS-5042-WG is an innovative secure 4-port RS232/422/485 to 802.11b/g WLAN, up to 54Mbps, and 2 port LAN device server.

- 4 serial port, 2 LAN port and 802.11b/g WLAN
- Supports Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP
- Multiple host devices support :
- 5 host devices : Virtual COM, TCP Server, TCP Client mode
- 4 IP ranges : UDP
- SSL data encryption ; secured management by HTTPS and SSHIP Access
- Dual redundant Ethernet port support redundant mode(Recovery time < 10ms)
- Ethernet switch mode enable Daisy Chain
- Event Warning by Syslog, Email, SNMP trap, and Beeper
- Configurable by Web-based and Windows utility (DS-Tool) and support DDNS

ORing offers a wide range of Devices Server,
- Serial to Ethernet version / WiFi / serial to Fibre version
- 1 /4 ports version
- PoE version supported

Please check with us for for the ports and technology required

Industrial Wireless Access Point **IAP-6701N-WG+ / WA+**

Industrial outdoor wireless access point with 1x10/100BaseT(X) PoE P.D., IP-67 grade, N-type antenna connector

- Supports IEEE802.3 b/g or a wireless LAN and specifically designed for the toughest industrial environments
- Supports IP-67 outdoor waterproof stand and is fully compliant with IEEE802.3af PoE P.D. function
- Various kinds of operation modes supported : AP/Bridge/ Repeater/AP-Client/Client mode
- Supports X-Roaming and wireless load balance for mobile communication
- Supports external N-Type antenna connection

ORing offers a wide range of Wireless Access point

- Support outdoor and indoor applicaions
- 80211 b/g/n or 802.11 a/n version available
- Version support X-Roaming

Please check with us for for the ports and technology required

Industrial Media Converter **IPMC-111PB**

Industrial mini type Ethernet to fiber PoE media converter with 1x10/100Base-T(X) P.S.E. and 1x100Base-FX, SFP socket

- Supports 1 port 10/100Base-T(X) P.S.E. auto-negotiation and auto-MDI/MDI-X
- Support Ethernet to fiber or Ethernet to SFP port
- Supports LFP (Link Fault Pass-through) function
- Supports full/half duplex operation
- P.S.E. fully compliant with IEEE802.3at standard; provides up to 30 Watts
- Supports store-and-forward transmission
- Provided DIP-Switch to setting function

Gigabit / Fast Ethernet version available in non-PoE version.

Industrial USB to serial Converter **ISC-4110U / 8110U**

Industrial 1-port USB to 4-port/8-port RS-232 serial media converter

- Fully compliant with USB specification 2.0
- RS-232 supporting RTS/CTS, DSR/DTR handshake signals
- Baud rate up to 921.6Kbps
- Dual redundant external DC power inputs on terminal
- block and power jack
- USB bus powered with Ultra low power consumption
- Highly space-saving for installation

Industrial PoE Injector **INJ-102**

Industrial 2-port Gigabit High Power PoE injector with 2x10/100 Base-T(X)

- Supports 2x10/100Base-T(X) for PoE power and data Output
- Fully compliant with IEEE802.3at/802.3af
- Auto protection for Over Voltage Power Input and over current output
- Supports Power Output up to 30Watts at 50VDC input
- IP-30 Rugged Case Design

IP Surveillance

Manufacturing Automation

ORing Industrial Gigabit PoE Ethernet Switch **IGPS-7084GP**

Industrial 12-port managed Gigabit PoE Ethernet switch with 8x10/100/1000Base-T(X) P.S.E. and 4x1000Base-X, SFP socket

- Supports world's fastest O-Ring Ethernet redundant
- technology and standard MSTP/RSTP/ STP Ethernet
- redundancy
- Supports ACL function and 9K Bytes jumbo frame
- Supports IP-based bandwidth manage-ment which can limit each IP device maximum bandwidth
- Supports application-based QoS and DOS/DDOS autoprevention function
- 8 P.S.E. ports based on IEEE 802.3at standard up to 30 Watts per port support-ing power consumption and scheduled management

ORing offers a wide range of PoE Ethernet Switch,

- Gigabit version / Fast Ethernet version
- Rack mount / DIN Rail mount / Railway version
- Managed / Unmanaged switch
- 6/8/10/12/28 ports available

Please check with us for for the ports and technology required

Industrial Gigabit Ethernet Switch **IGS-7084GCP**

Industrial 12-port managed Gigabit Ethernet switch with 8xGigabit combo ports and 4x1000Base-X, SFP socket

- Supports O-Ring/MSTP/RSTP/STP Ethernet redundant technology
- Supports ACL function and 9K Bytes jumbo frame
- Supports IP-based bandwidth manage-ment which can limit each IP device maximum bandwidth
- Supports application-based QoS and DOS/DDOS auto prevention function
- Supports SNMP v1/v2c/v3, IGMP v2/ v3, VLAN, QoS (COS/TOS), GVRP, 802.1x and LLDP standard Ethernet protocol
- Provides Web-based, Telnet, Console (CLI) and powerful windows utility ~ Open-Vision v3.0 multi-configuration

ORing offers a wide range of Ethernet Switch,

- Gigabit version / Fast Ethernet version
- Rack mount / DIN Rail mount / Railway version
- Managed / Unmanaged switch
- 5/6/8/10/12/16/18/24/28 ports available

Please check with us for for the ports and technology required

Antenova Chip Antenna Solutons

Antenova M2M is a leading developer and supplier of high performing integrated antennas and RF solutions for wireless communication, consumer electronic and wire-less M2M devices.

Antenova M2M offers the gigaNOVA® range of market leading standard antenna solutions for 2.3 GHz, 2.4 GHz, 2.5 GHz, 5 GHz, GPS, GSM/CDMA, WCDMA and ISM900 bands. Designed for ease of integration into wire-less M2M and consumer electronic devices, they are the smart choice for GPS, Bluetooth® (BT, BT EDR, BT LE), Wi-Fi®, ZigBee®, WiMAX™, WiBro, MIMO and cellular applications.

It is highly suitable for the handheld and small devices applications. If you are looking for any antenna solutions for your project, please **Contact us** now, and we will recommend the best solution for your project.

Looking for Antenna Accessories, Connector, Power supply and other components?

Please check with us, we supply a range of accessories, power supply and Antenna for different frequency and applicaions!

Give us a call / email and we will help to suggest a solu-tions to you. You are welcome to call and discuss with us if you are looking for any components for your design or for manufacturing.

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